	Туре	L#	Hits	Search Text	DBs
1	BRS .	L1	39	(search\$3 quer\$3 retriev\$3) same cach\$3 same (reus\$3 AND count\$3 AND quer\$3)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
2	BRS	L2	3910	((search\$3 OR query OR queries OR brows\$3 OR retriev\$3) SAME optimiz\$3)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
3	BRS	L3	1282	((search\$3 OR query OR queries OR brows\$3 OR retriev\$3) same optimiz\$3) AND (cache\$1 OR (temporar\$3 SAME storage\$1)) same ((access\$3 OR visit\$3 OR retriev\$3) same (count\$3 OR number\$1))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B

	Туре	L#	Hits	Search Text	DBs
4	BRS	L4	108	queries OR brows\$3 OR retriev\$3) SAME optimiz\$3) same (cache\$1 OR (temporar\$3 SAME storage\$1)) same ((access\$3 OR visit\$3 OR retriev\$3) same (count\$3 OR number\$1)) AND (threshold\$1 OR	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
5	BRS	L5	108		US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
6	BRS .	L6	108	2 and 5	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B

	Туре	L #	Hits	Search Text	DBs
7	BRS	L7	14	2 and 1	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
8	BRS	L 10	137	"707/10.ccls. and ((search\$3 OR query OR queries OR brows\$3 OR retriev\$3) SAME optimiz\$3) AND (cache\$1 OR (temporar\$3 SAME storage\$1)) AND ((access\$3 OR visit\$3 OR retriev\$3) SAME (count\$3 OR number\$1)) AND (threshold\$1 OR condition\$1) AND (reset\$3 OR reinitialz\$3 OR re-initializ\$3 OR initial OR defaut\$1)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
9	BRS	L11	78	"707"/104.1.ccls. and ((search\$3 OR query OR queries OR brows\$3 OR retriev\$3) SAME optimiz\$3) AND (cache\$1 OR (temporar\$3 SAME storage\$1)) AND ((access\$3 OR visit\$3 OR retriev\$3) SAME (count\$3 OR number\$1)) AND (threshold\$1 OR condition\$1) AND (reset\$3 OR reinitialz\$3 OR re-initializ\$3 OR initial OR defaut\$1)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B

	Туре	L #	Hits	Search Text	DBs
10	BRS	L12	10567	(search\$3 same cach\$3)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
11	BRS .	L13	13	(search\$3 same cach\$3) same count\$3 same threshold\$1	US- PGPUB; USPAT; USOCR; EPO; DPO; DERWEN T; IBM_TD B
12	BRS	L14	2964	709/201-203.ccls. and (search\$3 quer\$3 retriev\$3) and cach\$3	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B

	Туре	'L #	Hits	Search Text	DBs
13	BRS	L15	7	<u>-</u>	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD
14	BRS	L16		· · · · · · · · · · · · · · · · · · ·	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
15	BRS	L17		·	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B

	Туре	L#	Hits	Search Text	DBs
16	BRS	L18	ì	715/513.ccls. and (search\$3 quer\$3 retriev\$3) and cach\$3 and (reus\$3 same count\$1)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
17	BRS	L20	3	(web same (search adj engine\$1)) and cach\$3 and (reus\$3 same count\$1)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
18	BRS	L22	17	quer\$3 and (web and (search adj engine\$1)) and cach\$3 and (reus\$3 same count\$1)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B

	Туре	L #	Hits	Search Text	DBs
19	BRS	L23	1	((search\$3 retriev\$3 quer\$3) with (condition\$1 criteria)) and (cach\$3 with (quer\$3 near result\$1)) and (reus\$3 same count\$1)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
20	BRS	L24	174	((search\$3 retriev\$3 quer\$3) with (condition\$1	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
2,1	BRS	L26	182	707/3,10.ccls. and ((search\$3 OR query OR queries OR brows\$3 OR retriev\$3) same optimiz\$3) AND (cache\$1 OR (temporar\$3 SAME storage\$1)) same ((access\$3 OR visit\$3 OR retriev\$3) same (count\$3 OR number\$1))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B

	Туре	L #	Hits	Search Text	DBs
22	BRS	L29	4	AND (cache\$1 OR (temporar\$3 SAME storage\$1)) same	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B
23	BRS	L30	,	AND (cache\$1 OR (temporar\$3 SAME storage\$1)) same	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B



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Relevance scale

Best 200 shown

1 A comprehensive project for CS2: combining key data structures and algorithms into

integrated web browser and search engine

Tia Newhall, Lisa Meeden

February 2002 ACM SIGCSE Bulletin, Proceedings of the 33rd SIGCSE technical symposium on Computer science education SIGCSE '02, Volume 34 Is

Publisher: ACM Press

Full text available: 🔁 pdf(450.67

Additional Information: full citation, abstract, references, citir

We present our experience using a large, real-world application as a course project for the second half of the semester of a CS2 course. Our primary goal for the project was to cre an engaging application that incorporated most of the key data structures and algorithm introduced in the course. Specifically, the project uses binary search trees, priority queue hash tables, and graphs. The project consisted of four parts combined to build an integra web browser and search engine in Java. ...

2 Reusable software components

Trudy Levine

September 2005 ACM SIGAda Ada Letters, Volume XXV Issue 3

Publisher: ACM Press

Full text available: pdf(148.33 KB)

Additional Information: full citation, abstract, index terms

This column consists of our yearly listing of sources for reusable software components. A always, no recommendation or guarantee by this column is implied.

3 Ada software reuse: Reusable software components

Trudy Levine

August 2006 ACM SIGAda Ada Letters, Volume XXVI Issue 2

Publisher: ACM Press

Full text available: A pdf(101.52

Additional Information: full citation, abstract, index terms

This column consists of our yearly listing of sources for reusable software components. A always, no recommendation or guarantee by this column is implied.

4 Reusable software components

Trudy Levine

June 2005 ACM SIGAda Ada Letters, Volume XXV Issue 2

Publisher: ACM Press

Full text available: 🔁 pdf(109.11

KB)

Additional Information: full citation, abstract, index terms

This column consists of our yearly listing of sources for reusable software components. A always, no recommendation or guarantee by this column is implied.

5 Reusable software components

Trudy Levine

March 2005 ACM SIGAda Ada Letters, Volume XXV Issue 1

Publisher: ACM Press

Full text available: 2 pdf(133.07

KB)

Additional Information: full citation, abstract, index terms

This column consists of our yearly listing of sources for reusable software components. A always, no recommendation or guarantee by this column is implied.

6 Customizing information capture and access

③

Daniela Rus, Devika Subramanian

January 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 1

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citir index terms, review

This article presents a customizable architecture for software agents that capture and ac information in large, heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels of granularity to build high-level indices wit task-specific interpretations. Information agents construct such indices and are configure a network of reusable modules called structure detectors and segmenters. We illustrate architectu ...

Keywords: information gathering, software agents, table recognition

7 The V-Way Cache: Demand Based Associativity via Global Replacement

♦ 'V

Moinuddin K. Qureshi, David Thompson, Yale N. Patt

May 2005 ACM SIGARCH Computer Architecture News, Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05, Vi 33 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: A pdf(231.93

Additional Information: full citation, abstract, index terms

As processor speeds increase and memory latency becomes more critical, intelligent desi and management of secondary caches becomes increasingly important. The efficiency of current set-associative caches is reduced because programs exhibit a non-uniform distrit of memory accesses across different cache sets. We propose a technique to vary the

associativity of a cache on a per-set basis in response to the demands of the program. B increasing the number of tag-store entries relative to the ...

8 Web search 2: Detecting dominant locations from search queries

Lee Wang, Chuang Wang, Xing Xie, Josh Forman, Yansheng Lu, Wei-Ying Ma, Ying Li
August 2005 Proceedings of the 28th annual international ACM SIGIR conference (
Research and development in information retrieval SIGIR '05

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citir index terms

Accurately and effectively detecting the locations where search queries are truly about huge potential impact on increasing search relevance. In this paper, we define a search query's dominant location (QDL) and propose a solution to correctly detect it. QDL is geographical location(s) associated with a query in collective human knowledge, i.e., one few prominent locations agreed by majority of people who know the answer to the query is a subjective and collective attribute of search ...

Keywords: information retrieval, local search, query's dominant location, search query location, search relevance

9 <u>Learning source-target surface patterns for web-based terminology translation</u> Jian-Cheng Wu, Tracy Lin, Jason S. Chang

June 2005 Proceedings of the ACL 2005 on Interactive poster and demonstration sessions ACL '05

Publisher: Association for Computational Linguistics

Full text available: Additional Information: full citation, abstract, references

Additional Information:

This paper introduces a method for learning to find translation of a given source term on Web. In the approach, the source term is used as query and part of patterns to retrieve extract translations in Web pages. The method involves using a bilingual term list to lear source-target surface patterns. At runtime, the given term is submitted to a search engit then the candidate translations are extracted from the returned summaries and subsequiranked based on the surface patterns, oc ...

10 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97

Publisher: IBM Press

Full text available: Additional Information: full citation, abstract, references, inditional terms

Understanding distributed applications is a tedious and difficult task. Visualizations based process-time diagrams are often used to obtain a better understanding of the execution application. The visualization tool we use is Poet, an event tracer developed at the Unive of Waterloo. However, these diagrams are often very complex and do not provide the us with the desired overview of the application. In our experience, such tools display repeat occurrences of non-trivial commun ...

11 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woo Aaron Lefohn

August 2004 ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: pdf(63.03

MB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

12 Search engineering 1: What's new on the web?: the evolution of the web from a sea

engine perspective

Alexandros Ntoulas, Junghoo Cho, Christopher Olston

May 2004 Proceedings of the 13th international conference on World Wide Web W '04

Publisher: ACM Press

Full text available: pdf(502.41 Additional Information: full citation, abstract, references, citir index terms

We seek to gain improved insight into how Web search engines shouldcope with the evol Web, in an attempt to provide users with themost up-to-date results possible. For this purpose we collectedweekly snapshots of some 150 Web sites over the course of one year measured the evolution of content and link structure. Our measurements focus on aspec potential interest to search engine designers: the evolution of link structure over time, the rate of of new pages and new distinct c ...

Keywords: change prediction, degree of change, link structure evolution, rate of change search engines, web characterization, web evolution, web pages

13 <u>Technical papers: component technologies: Component rank: relative significance r</u> <u>for software component search</u>

Katsuro Inoue, Reishi Yokomori, Hikaru Fujiwara, Tetsuo Yamamoto, Makoto Matsushita, SI Kusumoto

May 2003 Proceedings of the 25th International Conference on Software Engineer ICSE '03

Publisher: IEEE Computer Society

Full text available: pdf(884.54

KB) Publisher Additional Information: full citation, abstract, references, citir index terms

<u>Site</u>

Collections of already developed programs are important resources for efficient developed of reliable software systems. In this paper, we propose a novel method of ranking software components, called *Component Rank*, based on analyzing actual use relations among the components and propagating the significance through the use relations. We have development-rank computation system, and applied it to various Java programs. The result

promising such that non-specific and generic ...

14 Boosting the performance of Web search engines: Caching and prefetching query

results by exploiting historical usage data

Tiziano Fagni, Raffaele Perego, Fabrizio Silvestri, Salvatore Orlando

January 2006 ACM Transactions on Information Systems (TOIS), Volume 24 Issue 1

Publisher: ACM Press

Full text available: pdf(668.69 Additional Information: full citation, abstract, references, citir index terms

This article discusses efficiency and effectiveness issues in caching the results of queries submitted to a Web search engine (WSE). We propose SDC (Static Dynamic Cache), a ne caching strategy aimed to efficiently exploit the temporal and spatial locality present in t stream of processed queries. SDC extracts from historical usage data the results of the r frequently submitted queries and stores them in a static, read-only portion of the cache. remaining entries of the c ...

Keywords: Caching, Web search engines, multithreading

15 Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Publisher: ACM Press

Full text available: pdf(613.63

KB) 🖲 html (2.78 KB)

Additional Information: <u>full citation</u>, <u>references</u>, citings, index

terms

16 Query term disambiguation for Web cross-language information retrieval using a se

engine

Akira Maeda, Fatiha Sadat, Masatoshi Yoshikawa, Shunsuke Uemura

November 2000 Proceedings of the fifth international workshop on on Information retrieval with Asian languages IRAL '00

Publisher: ACM Press

Full text available: Dpdf(736.31 KB)

Additional Information: <u>full citation</u>, abstract, references, citir

With the worldwide growth of the Internet, research on Cross-Language Information Ret (CLIR) is being paid much attention. Existing CLIR approaches based on query translatio require parallel corpora or comparable corpora for the disambiguation of translated quer terms. However, those natural language resources are not readily available. In this pape propose a disambiguation method for dictionary-based query translation that is independ of the availability of such scarce langua ...

Keywords: WWW, cross-language information retrieval, mutual information, search eng

17 Search engine engineering: To randomize or not to randomize: space optimal summaries for hyperlink analysis



Tamás Sarlós, Adrás A. Benczúr, Károly Csalogány, Dániel Fogaras, Balázs Rácz May 2006 Proceedings of the 15th international conference on World Wide Web W '06

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, indeterms

Additional Information: full citation, abstract, references, indeterms

Personalized PageRank expresses link-based page quality around user selected pages. The only previous personalized PageRank algorithm that can serve on-line queries for an unrestricted choice of pages on large graphs is our Monte Carlo algorithm [WAW 2004]. This paper we achieve unrestricted personalization by combining rounding and randomize sketching techniques in the dynamic programming algorithm of Jeh and Widom [WWW 2 We evaluate the precision of approximation experimentally on lar ...

Keywords: data streams, link-analysis, scalability, similarity search

18 Aggregate predicate support in DBMS

Apostol (Paul) Natsev, Gene Y. C. Fuh, Weidong Chen, Chi-Huang Chiu, Jeffrey S. Vitter January 2002 Australian Computer Science Communications, Proceedings of the 1 Australasian database conference - Volume 5 ADC '02, Volume 24 Issue

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available: Additional Information: full citation, abstract, references, citir index terms

In this paper we consider aggregate predicates and their support in database systems. Aggregate predicates are the predicate equivalent to aggregate functions in that they call used to search for tuples that satisfy some aggregate property over a set of tuples (as opposed to simply computing an aggregate property over a set of tuples). The important aggregate predicates is exemplified by many modern applications that require ranked se or top-k queries. Such queries are the norm ...

Keywords: aggregate predicates, nearest neighbor, query optimization

19 OOPSLA onward! track: No name: just notes on software reuse

Robert Biddle, Angela Martin, James Noble

December 2003 ACM SIGPLAN Notices, Volume 38 Issue 12

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citir index terms

In the beginning, so our myths and stories tell us, the programmer created the program the eternal nothingness of the void. In this essay, we recognise that programs these day like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are at the most important consideration for reuse; it is the end product, the composition. The is still involve value, investment, and return. ...

Keywords: components, object-oriented programming, software reuse

- 20 Onward papers: No name: just notes on software reuse
- Robert Biddle, Angela Martin, James Noble

October 2003 Companion of the 18th annual ACM SIGPLAN conference on Objectoriented programming, systems, languages, and applications OOPSL '03

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, inditional learning terms

In the beginning, so our myths and stories tell us, the programmer created the program the eternal nothingness of the void. In this essay, we recognise that programs these day like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are at the most important consideration for reuse; it is the end product, the composition. The is still involve value, investment, and return. ...

Keywords: components, object-oriented programming, software reuse

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Relevance scale

1 Indexing and querying: Three-level caching for efficient query processing in large W

search engines

Xiaohui Long, Torsten Suel

May 2005 Proceedings of the 14th international conference on World Wide Web W

Publisher: ACM Press

Full text available: 🔁 pdf(243.61

Additional Information: full citation, abstract, references, citir index terms

Large web search engines have to answer thousands of queries per second with interacti response times. Due to the sizes of the data sets involved, often in the range of multiple terabytes, a single query may require the processing of hundreds of megabytes or more index data. To keep up with this immense workload, large search engines employ cluster hundreds or thousands of machines, and a number of techniques such as caching, index compression, and index and query pruning are used to im ...

Keywords: Web search, caching, inverted index

2 Information Retrieval: Predictive caching and prefetching of query results in search

engines

Ronny Lempel, Shlomo Moran

May 2003 Proceedings of the 12th international conference on World Wide Web W '03

Publisher: ACM Press

Full text available: pdf(212.73 Additional Information: full citation, abstract, references, citir KB) index terms

We study the caching of query result pages in Web search engines. Popular search engin receive millions of queries per day, and efficient policies for caching query results may el them to lower their response time and reduce their hardware requirements. We present (probability driven cache), a novel scheme tailored for caching search results, that is bas on a probabilistic model of search engine users. We then use a trace of over seven millio queries submitted to the search engine A ...

Keywords: caching, query processing and optimization

- 3 Boosting the performance of Web search engines: Caching and prefetching query
- results by exploiting historical usage data

Tiziano Fagni, Raffaele Perego, Fabrizio Silvestri, Salvatore Orlando

January 2006 ACM Transactions on Information Systems (TOIS), Volume 24 Issue 1

Publisher: ACM Press

Full text available: Dpdf(668.69 Additional Information: full citation, abstract, references, citir KB)

This article discusses efficiency and effectiveness issues in caching the results of queries submitted to a Web search engine (WSE). We propose SDC (Static Dynamic Cache), a necaching strategy aimed to efficiently exploit the temporal and spatial locality present in the stream of processed queries. SDC extracts from historical usage data the results of the requently submitted queries and stores them in a *static*, *read-only* portion of the cache. remaining entries of the c...

Keywords: Caching, Web search engines, multithreading

- 4 Rank-preserving two-level caching for scalable search engines
- Paricia Correia Saraiva, Edleno Silva de Moura, Novio Ziviani, Wagner Meira, Rodrigo Fonse Berthier Riberio-Neto

September 2001 Proceedings of the 24th annual international ACM SIGIR conferer on Research and development in information retrieval SIGIR '01

Publisher: ACM Press

Full text available: Ddf(232.50 Additional Information: full citation, references, citings, indexterms

- 5 Querying and web: Efficient query processing in geographic web search engines
- Yen-Yu Chen, Torsten Suel, Alexander Markowetz

 June 2006 Proceedings of the 2006 ACM SIGMOD international conference on

 Management of data SIGMOD '06

Publisher: ACM Press

(B) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

Geographic web search engines allow users to constrain and order search results in an intuitive manner by focusing a query on a particular geographic region. Geographic search technology, also called *local search*, has recently received significant interest from major search engine companies. Academic research in this area has focused primarily on techn for extracting geographic knowledge from the web. In this paper, we study the problem efficient query processing in scalable geogr ...

- 6 Optimizing result prefetching in web search engines with segmented indices
- Ronny Lempel, Shlomo Moran February 2004 ACM Transactions on Internet Technology (TOIT), Volume 4 Issue 1 Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citir index terms

We study the process in which search engines with segmented indices serve queries. In particular, we investigate the number of result pages that search engines should prepare during the query processing phase. Search engine users have been observed to browse through very few pages of results for queries that they submit. This behavior of users suggests that prefetching many results upon processing an initial query is not efficient, s most of the prefetched results will not be requested by the ...

Keywords: Distributed inverted indices, prefetching, search engines

7 Inverted files for text search engines

Justin Zobel, Alistair Moffat

July 2006 ACM Computing Surveys (CSUR), Volume 38 Issue 2

Publisher: ACM Press

Full text available: pdf(944.29 Additional Information: full citation, abstract, references, inditional Information: full citation, abstract, references, inditional Information: full citation, abstract, references, inditional Information:

The technology underlying text search engines has advanced dramatically in the past de The development of a family of new index representations has led to a wide range of innovations in index storage, index construction, and query evaluation. While some of th developments have been consolidated in textbooks, many specific techniques are not will known or the textbook descriptions are out of date. In this tutorial, we introduce the key techniques in the area, describing both a core impl ...

Keywords: Inverted file indexing, Web search engine, document database, information retrieval, text retrieval

8 Research session: DB and IR #1: An efficient and versatile query engine for TopX search

Martin Theobald, Ralf Schenkel, Gerhard Weikum

August 2005 Proceedings of the 31st international conference on Very large data I VLDB '05

Publisher: VLDB Endowment

Full text available: Additional Information: full citation, abstract, references, citir index terms

This paper presents a novel engine, coined *TopX*, for efficient ranked retrieval of XML documents over semistructured but nonschematic data collections. The algorithm follows paradigm of threshold algorithms for top-k query processing with a focus on inexpensive sequential accesses to index lists and only a few judiciously scheduled random accesses. difficulties in applying the existing top-k algorithms to XML data lie in 1) the need to con scores for XML elements while aggreg ...

9 Coverage, relevance, and ranking: The impact of query operators on Web search e results

Caroline M. Eastman, Bernard J. Jansen

October 2003 ACM Transactions on Information Systems (TOIS), Volume 21 Issue 4

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citing index terms, review

Research has reported that about 10% of Web searchers utilize advanced query operators, with the other 90% using extremely simple queries. It is often assumed the use of query operators, such as Boolean operators and phrase searching, improves the effectiveness of Web searching. We test this assumption by examining the effects of quere operators on the performance of three major Web search engines. We selected one hunc queries from the transaction log of a Web search servic ...

Keywords: Boolean operators, Relative precision, Web results, coverage, query operator ranking, search engines

10 Browsers and UI, web engineering, hypermedia & multimedia, security, and

accessibility: Efficient query subscription processing for prospective search engines Utku Irmak, Svilen Mihaylov, Torsten Suel, Samrat Ganguly, Rauf Izmailov May 2006 Proceedings of the 15th international conference on World Wide Web W '06

Publisher: ACM Press

Full text available: pdf(88.44 Additional Information: full citation, abstract, references, independence KB)

Additional Information: full citation, abstract, references, independence KB

Current web search engines are retrospective in that they limit users to searches against already existing pages. Prospective search engines, on the other hand, allow users to up queries that will be applied to newly discovered pages in the future. We study and compalgorithms for efficiently matching large numbers of simple keyword queries against a st of newly discovered pages.

Keywords: inverted index, prospective search, query processing

11 Industrial session: Secure search in enterprise webs: tradeoffs in efficient

implementation for document level security

Peter Bailey, David Hawking, Brett Matson

November 2006 Proceedings of the 15th ACM international conference on Informa and knowledge management CIKM '06

Publisher: ACM Press

Full text available: Dpdf(538.46 Additional Information: full citation, abstract, references, indexterms

Document level security (DLS) -- enforcing permissions prevailing at the time of search specified as a mandatory requirement in many enterprise search applications. Unfortuna depending upon implementation details and values of key parameters, DLS may come at high price in increased query processing time, leading to an unacceptably slow search experience. In this paper we present a model and a method for carrying out secure search the presence of DLS within enterprise webs. We rep ...

Keywords: access control, caching, collection level security, document level security, enterprise search, file systems, performance, scalability, security models

12 Best Paper: Early experiences with a 3D model search engine

Patrick Min, John A. Halderman, Michael Kazhdan, Thomas A. Funkhouser

March 2003 Proceeding of the eighth international conference on 3D Web technology Web3D '03

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citir index terms

New acquisition and modeling tools make it easier to create 3D models, and affordable a powerful graphics hardware makes it easier to use them. As a result, the number of 3D models available on the web is increasing rapidly. However, it is still not as easy to find it models as it is to find, for example, text documents and images. What is needed is a $\3$ I model search engine," a specialized search engine that targets 3D models. We created a prototype 3D model search engine to investigate the d ...

Keywords: 3D model database, shape matching, shape query interfaces, specialized seengine

13 Research papers: XML query, update, and search: Efficient keyword search for small

LCAs in XML databases

Yu Xu, Yannis Papakonstantinou

June 2005 Proceedings of the 2005 ACM SIGMOD international conference on Management of data SIGMOD '05

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citir

Keyword search is a proven, user-friendly way to query HTML documents in the World W Web. We propose keyword search in XML documents, modeled as labeled trees, and des corresponding efficient algorithms. The proposed keyword search returns the set of smal trees containing all keywords, where a tree is designated as "smallest" if it contains no t that also contains all keywords. Our core contribution, the Indexed Lookup Eager algoritl exploits key properties of smallest trees in ...

14 Research sessions: Research 28: Search applications: Trustworthy keyword search regulatory-compliant records retention

Soumyadeb Mitra, Windsor W. Hsu, Marianne Winslett

September 2006 Proceedings of the 32nd international conference on Very large d bases - Volume 32 VLDB'2006

Publisher: VLDB Endowment

Full text available: pdf(879.26 Additional Information: full citation, abstract, references, indexterms

Recent litigation and intense regulatory focus on secure retention of electronic records h spurred a rush to introduce Write-Once-Read-Many (WORM) storage devices for retainin business records such as electronic mail. However, simply storing records in WORM storage insufficient to ensure that the records are trustworthy, i.e., able to provide irrefutable proportion accurate details of past events. Specifically, some form of index is needed for timely access to the records, but unless the in ...

15 A comprehensive project for CS2: combining key data structures and algorithms into

integrated web browser and search engine

Tia Newhall, Lisa Meeden

February 2002 ACM SIGCSE Bulletin, Proceedings of the 33rd SIGCSE technical symposium on Computer science education SIGCSE '02, Volume 34 Is

Publisher: ACM Press

Additional Information: full citation, abstract, references, citir

We present our experience using a large, real-world application as a course project for the second half of the semester of a CS2 course. Our primary goal for the project was to crean engaging application that incorporated most of the key data structures and algorithm introduced in the course. Specifically, the project uses binary search trees, priority queuhash tables, and graphs. The project consisted of four parts combined to build an integrated browser and search engine in Java. ...

16 Automated gathering of Web information: An in-depth examination of agents interact

with search engines

Bernard J. Jansen, Tracy Mullen, Amanda Spink, Jan Pedersen

November 2006 ACM Transactions on Internet Technology (TOIT), Volume 6 Issue 4

Publisher: ACM Press

Full text available: pdf(386.13 Additional Information: full citation, abstract, references, indext etc.)

KB) terms

The Web has become a worldwide repository of information which individuals, companies organizations utilize to solve or address various information problems. Many of these We users utilize automated agents to gather this information for them. Some assume that the approach represents a more sophisticated method of searching. However, there is little research investigating how Web agents search for online information. In this research, we first provide a classification for information agent ...

Keywords: Search engines, Web searching, agent searching

17 Indexing and querying: Improving Web search efficiency via a locality based static

pruning method

Edleno S. de Moura, Célia F. dos Santos, Daniel R. Fernandes, Altigran S. Silva, Pavel Calac Mario A. Nascimento

May 2005 Proceedings of the 14th international conference on World Wide Web W '05

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, cities index terms

The unarguably fast, and continuous, growth of the volume of indexed (and indexable) documents on the Web poses a great challenge for search engines. This is true regarding only search effectiveness but also time and space efficiency. In this paper we present an index pruning technique targeted for search engines that addresses the latter issue with disconsidering the former. To this effect, we adopt a new pruning strategy capable of greateducing the size of search engine indices. Exp ...

Keywords: indexing, information retrieval, pruning, search engines, web search

18 A search engine for 3D models

Thomas Funkhouser, Patrick Min, Michael Kazhdan, Joyce Chen, Alex Halderman, David Dol David Jacobs

January 2003 ACM Transactions on Graphics (TOG), Volume 22 Issue 1

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citir index terms

As the number of 3D models available on the Web grows, there is an increasing need for search engine to help people find them. Unfortunately, traditional text-based search techniques are not always effective for 3D data. In this article, we investigate new shape based search methods. The key challenges are to develop query methods simple enough novice users and matching algorithms robust enough to work for arbitrary polygonal movement a Web-based search engine system that support ...

Keywords: Search engine, shape matching, shape representation, shape retrieval

19 Dynamic services and analysis: Make it fresh, make it quick: searching a network of

personal webservers

Mayank Bawa, Roberto J. Bayardo, Sridhar Rajagopalan, Eugene J. Shekita

May 2003 Proceedings of the 12th international conference on World Wide Web W

'03

Publisher: ACM Press

Full text available: pdf(500.28 Additional Information: full citation, abstract, references, citii index terms

Personal webservers have proven to be a popular means of sharing files and peer collaboration. Unfortunately, the transient availability and rapidly evolving content on su hosts render centralized, crawl-based search indices stale and incomplete. To address th problem, we propose YouSearch, a distributed search application for personal webserver operating within a shared context (e.g., a corporate intranet). With YouSearch, search reare always fast, fresh and complete -- properties we ...

Keywords: P2P, decentralized systems, information communities, intranet search, peer peer networks, web search

20 Teaching key topics in computer science and information systems through a web se

engine project

Michael Chau, Zan Huang, Hsinchun Chen

September 2003 Journal on Educational Resources in Computing (JERIC), Volume 3

Publisher: ACM Press

Full text available: pdf(169.15 Additional Information: full citation, abstract, references, indexerved terms

Advances in computer and Internet technologies have made it more and more important information technology professionals to acquire experience in a variety of aspects, incluc new technologies, system integration, database administration, and project managemen provide students with a chance to acquire such skills, we designed a project called "Builc Search Engine in 90 Days," in which students were required to build a domain-specific W search engine in a semester. In this pa ...

Keywords: education, indexing, web computing, web search engine, web spiders

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